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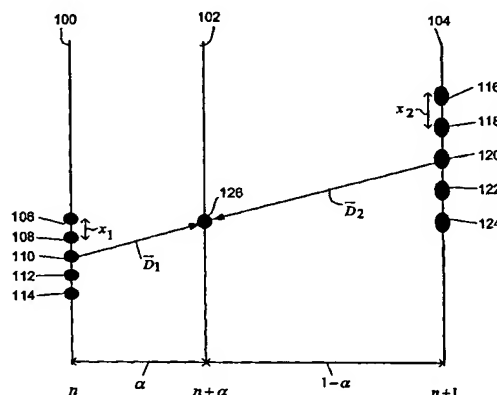
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(54) Title: **MOTION-COMPENSATED IMAGE SIGNAL INTERPOLATION**



(57) Abstract: A motion-compensated image signal interpolation unit (200) for generating an interpolated image being located at a first predetermined temporal distance (a) from the first image and being located at a second predetermined temporal distance (1- a) from the second image is disclosed. The interpolation unit (200) comprises: motion estimation means (202) for furnishing a first and a second motion vector relating to the first and second image; furnishing means (204, 206) for furnishing a first group of samples on basis of values of pixels of the first image and the first motion vector and for furnishing a second group of samples on basis of values of pixels of the second image and the second motion vector; and filtering means (212) for ordered statistical filtering of the samples of the first and the second group to produce a first value of a first pixel of the interpolated image (102), whereby a first quotient is substantially equal to a second quotient, the first quotient being determined by a first spatial distance (x_1) between a first one of the samples of the first group and a second one of the samples of the first group and the first predetermined temporal distance (a), the second quotient being determined by a second spatial distance (x_2) between a first one of the samples of the second group and a second one of the samples of the second group and the second predetermined temporal distance (1- α).



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